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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brian C. Demsky, et al. :
Serial No.: 10/723,252 : Examiner: Unassigned
Filed: November 26, 2003 : Art Unit: 2171
For: SPECIFICATION BASED : Atty. Docket: MIS-00401
DETECTION AND REPAIR OF
ERRORS IN DATA
STRUCTURES

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Crystal Slason
Name: Crystal Slason

INFORMATION DISCLOSURE STATEMENT

Mail Stop: Amendment
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Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicant and/or their attorney in compliance with the requirements of 37 C.F.R. § 1.56. 52 Copies of the documents are also being submitted. Also enclosed herewith is a copy of the communication from the International Searching Authority citing reference A.

- In accordance with 37 C.F.R. 1.97, Applicant does not believe any fees are due in connection with submission of this Information Disclosure Statement since this Information Disclosure Statement is being filed before the mailing date of a first office action on the merits.

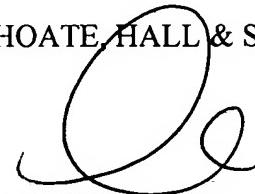
The Examiner is respectfully requested to initial the space adjacent to each document on the PTO-1449 form and return a copy of the PTO-1449 form to confirm that these documents have been considered by the Examiner and made of record in this application.

Although we believe that we have appropriately provided for any fees due in connection with this submission, the Commissioner is authorized to credit any overpayment or charge any deficiencies to/from our **Deposit Account No. 03-1721**. Two originally-executed copies of this form are being submitted.

Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at (617) 248-4042.

Respectfully submitted,

CHOATE, HALL & STEWART LLP

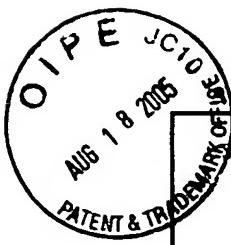


Anne E. Saturnelli, Reg. No. 41,290

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Date: August 16, 2005

Customer Number 26339



Substitute for form 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/723,252
				Filing Date	November 26, 2003
				First Named Inventor	Brian C. Demsky, et al.
				Art Unit	2171
				Examiner Name	Unassigned
Sheet	1	of	8	Attorney Docket Number	MIS-00401

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
	A	US 2004/0015876 A1	01/22/2004	Applin	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)				
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	B	JONATHAN D. BRIGHT, et al., On-line Error Monitoring for Several Data Structures, AT&T Bell Laboratories, Murray Hill, New Jersey 07974, Computer Science Department, Johns Hopkins University, Baltimore, Maryland 21218, 10 pages.	<input type="checkbox"/>
	C	STEFANO PORCARELLI, et al., Tuning of database audits to improve scheduled maintenance in communication systems, Univ. of Pisa, Computer Engineering Dep., Via Diotisalvi 2, I-56126, Pisa, Italy, Stefano.porcarielli@guest.cnuce.cnr.it ; IEI/CNR, Via Moruzzi 1, I-56100, Pisa, Italy {digiandomenico, chohra}@iei.pi.cnr.it; Univ. of Firenze, Dip. Sistemi e Informatica, V. Lombroso 6/17, I-50134, Firenze, Italy, andrea.bondavalli@cnuce.cnr.it , 10 pages.	<input type="checkbox"/>
	D	JIM GRAY, et al., The Recovery Manager of the System R Database Manager, Computing Surveys, vol. 13, No. 2, June 1981, pages 223-242.	<input type="checkbox"/>
	E	P.J. Plauger, Chocolate, March 1994, Embedded Systems Programming 81, 3 pages.	<input type="checkbox"/>
	F	MICHAEL SANNELLA, et al., Multi-way Versus One-way Constraints in User Interfaces: Experience with the DeltaBlue Algorithm; Technical Report 92-07-05a, Dept. of Computer Science and Engineering, University of Washington, May 1993, 38 pages.	<input type="checkbox"/>
	G	CHUNG-CHI JIM LI, et al., Local Concurrent Error Detection and Correction in Data Structures Using Virtual Backpointers, IEEE Transactions on Computers, Vol. 38, No. 11, November 1989, pages 1481-1482.	<input type="checkbox"/>
	H	DAVID GARLAN, et al., Model-based Adaptation for Self-Healing Systems, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA USA, garland@cs.cmu.edu , 6 pages.	<input type="checkbox"/>
	I	JONATHAN D. BRIGHT, et al., Checking the Integrity of Trees, 10 pages.	<input type="checkbox"/>

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	J	G. HAUGK, et al., Maintenance Capabilities, AT&T Technical Journal, Vol. 64, No. 6, July-August 1985, pages 1385-1416.			<input type="checkbox"/>
	K	SAMINA MOURAD, et al., On the Reliability of the IBM MVS/XA Operating System, Concise Papers, IEEE Transactions on Software Engineering, Vol. SE-13, No. 10, October 1987, pages 1135-1139.			<input type="checkbox"/>
	L	ROBERT E. STROM, et al., Typestate: A Programming Language Concept for enhancing Software Reliability, IEEE Transactions on Software Engineering, Vol. SE-12, No. 1, January 1986, pages 157-171.			<input type="checkbox"/>
	M	DAVID J. TAYLOR, et al., Principles of Data Structure Error Correction, IEEE Transactions on Computers, Vol. C-31, No. 7, July 1982, pages 602-608.			<input type="checkbox"/>
	N	MANUVIR DAS, et al., ESP: Path-Sensitive Program Verification in Polynomial Time, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 57-68.			<input type="checkbox"/>
	O	DAVID PATTERSON, et al., Recovery Oriented Computing (ROC): Motivation, Definition, Techniques, and Case Studies, Computer Science Technical Report UCS//CSD-02-1175, U.C. Berkeley, March 15, 2002, 16 pages.			<input type="checkbox"/>
	P	Neeraj K. Gupta, et al., Auditdraw: Generating Audits the FAST Way, pages 1-10.			<input type="checkbox"/>
	Q	STEFANO CERI, et al., automatic Generation of Production Rules for Integrity Maintenance, ACM Transactions on Database Systems, Vol. 19, No. 3, September 1994, pages 367-422.			<input type="checkbox"/>

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	R	AARON B. BROWN, et al., Undo for Operators: Building an Undoable E-mail Store, University of California, Berkeley, EECS, Computer Science Division, 387 Soda Hall, #1776, Berkeley, CA, 94720-1776, USA {abrown, patterson}@cs.berkeley.edu, June 2003, 14 pages.	<input type="checkbox"/>
	S	GEORGE CANDEA, et al., Recursive Restartability: Turning the Reboot Sledgehammer into a Scalpel, Appears in Proceedings of the 8 th Workshop on Hot Topics in Operating Systems (HotOS-VIII), May, 2001, 6 pages.	<input type="checkbox"/>
	T	STEFANO CERI, et al., Deriving Production Rules for Constraint Maintenance, Proc. of 1990 VLDB Conference, pages 566-577.	<input type="checkbox"/>
	U	DAVID G. CLARKE, et al., Ownership Types for Flexible Alias Protection, Microsoft Research Institute, Macquarie University, Sydney, Australia {clad,potter,kjx}@mri.mq.edu.au, 17 pages.	<input type="checkbox"/>
	V	SUSAN D. URBAÑ, et al., Constraint Analysis: A Design process for Specifying Operations on Objects, IEEE Transactions on Knowledge and Data Engineering, Vol. 2, No. 4, December 1990, pages 391-400.	<input type="checkbox"/>
	W	JAMES C. CORBETT, et al., Bandera: Extracting Finite-state models from java Source Code, University of Hawai'i Department of Information, and Computer Science, Honolulu, HI 96822, Corbett@hawaii.edu , 10 pages.	<input type="checkbox"/>
	X	MARTIN C. RINARD, Credible Compilation, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, March 10, 1999, 38 pages.	<input type="checkbox"/>
	Y	JAMES R. LARUS, et al., EEL: Machine-Independent Executable Editing, Computer Sciences Department, University of Wisconsin-Madison, 1210 West Dayton Street, Madison, WI 53706, USA, {larus,schnarr}@cs.wisc.edu., pages 291-300.	<input type="checkbox"/>

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	Z	MICHAEL d. ERNST, et al., Quickly Detecting Relevant Program Invariants, University of Washington Technical Report UW-CSE-99-11-01, November 15, 1999, 12 pages.	<input type="checkbox"/>
	AA	TIMOTHY GRIFFIN, et al., Generating Update Constraints from PRL5.0 Specifications, AT&T Bell laboratories, July 12, 1996, 10 pages.	<input type="checkbox"/>
	AB	BRIAN DEMSKY, et al., Role-Based Exploration of Object-Oriented Programs, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, bdemsky@mit.edu , 12 pages.	<input type="checkbox"/>
	AC	DANIEL JACKSON, Alloy: A Lightweight Object Modelling Notation, Laboratory for Computer Science, Massachusetts Institute of Technology, November 27, 2001, 32 pages.	<input type="checkbox"/>
	AD	GREGOR KICZALES, et al., Aspect-Oriented programming, June 1997, 25 pages.	<input type="checkbox"/>
	AE	Abstract – VIKTOR KUNCAK, et al., Role Analysis, POPL '02, Jan. 16-18, 2002, Portland, OR USA; 16 pages.	<input type="checkbox"/>
	AF	DAVID A. LADD, et al., Two Application Languages in Software Production, AT&T Bell Laboratories, 9 pages.	<input type="checkbox"/>
	AG	CHRISTIAN NENTWICH, et al., consistency Management with Repair Actions, Department of Computer Science, University College London, Gower Street, London WC1E 6BT, UK {c.nentwich, w.emmerich,a.finkelstein}@cs.ucl.ac.uk, 10 pages.	<input type="checkbox"/>

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	AH	SUSAN S. BRILLIANT, et al., Analysis of Faults I a Multi-Version Software Experiment, Department of Computer Science, University of Virginia, Charlottesville, Virginia 22903, 36 pages.			<input type="checkbox"/>
	AI	CHANDRASEKHAR BOYAPATI, et al., Ownership Types for Safe programming: Preventing Data Races and Deadlocks, OOPSLA '02, November 4-8, 2002, Seattle, Washington, USA, pages 211-230.			<input type="checkbox"/>
	AJ	TIMOTHY L. KAY, et al., Ray Tracing Complex Scenes, Dallas, August 18-22, Volume 20, Number 4, 1986, pages 269-278.			<input type="checkbox"/>
	AK	MARTIN C. RINARD, et al., Credible Compilation with Pointers, Laboratory for computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, {rinard,marinov}@lcs.mit.edu, 20 pages.			<input type="checkbox"/>
	AL	BEVERLY D. SANFORD, et al., Center/Traconautomation system: Development and Evaluation in the Field, 38 th Annual air Traffic Control Association Conference Proceedings. October 1993, pages 238-245.			<input type="checkbox"/>
	AM	EDSGER W. DIJKSTRA, Self-stabilizing Systems in Spite of Distributed Control, Communications of the ACM, November 1974, Volume 17, Number 11, pages 643-644.			<input type="checkbox"/>
	AN	DANIEL JACKSON, et al., Software Analysis: A Roadmap, Future of Sofware Engineering, Limerick Ireland, 2000, 133-145pages			<input type="checkbox"/>
	AO	SETH HALLEM, et al., A System and Language for Building System-Specific, Static Analyses, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 69-82.			<input type="checkbox"/>

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	AP	PETE BROADWELL, et al., Fig A Prototype Tool for Online Verification of Recovery Mechanisms, ICS Shaman Workshop, '02, New York, New York, USA, 7 pages.			<input type="checkbox"/>
	AQ	ALBERT D. ALEXANDROV, et al., Ufo: A Personal Global File System Based on User-Level Extensions to the Operating System, ACM Transactions on Computer Systems, Vol. 16, No. 3, August 1998, pages 207-233.			<input type="checkbox"/>
	AR	JONG-DEOK CHOI, et al., Efficient and Precise Datarace Detection for Multithreaded Object-Oriented Programs, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 258-269			<input type="checkbox"/>
	AS	Abstract – BRIAN DEMSKY, et al., Automatic Data Structure Repair for Self-Healing Systems, First Workshop on Algorythms and Architectures for Self-Managing System, June 2003, 6 pages.			<input type="checkbox"/>
	AT	BRIAN DEMSKY, et al., Static Specification Analysis for Termination of Specification-Based Data Structure Repair, The 14 th IEEE International Symposium of Software Reliability Engineering, Nov. 2003, 14 pages.			<input type="checkbox"/>
	AU	ARTIN RINARD, et al., Acceptability-Oriented Computing, OOPSLA '03, October 26-30, 2003, 19 pages.			<input type="checkbox"/>
	AV	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, OOPSLA '03, October 26-30, 2003, Anaheim, California, USA, 18 pages.			<input type="checkbox"/>
	AW	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, MIT LCS Technical Repair 875, December 2002, 10 pages.			<input type="checkbox"/>

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	AX	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, NDIST Workshop, December 10, 2002, 38 pages.			<input type="checkbox"/>
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